

POSSIBILITIES FOR THE PRODUCTION OF RAW
MATERIAL FOR PETROLEUM CHEMISTRY AT THE
PETROLEUM PROCESSING PLANTS OF THE USSR,
BY I. R. OSADCHENKO, V. L. KLIMENKO, 21 PP.

RUSSIAN, PER, KHIM PROM, ^{NO}~~MR~~ 8, 1961,
PP 1-7.

NLL TR BULLETIN
VOL 4, NO 2, 1962

USSR
ECON
JUN 62

199,036

Efremova, G. D. and Pryanikova, R. O.
LIQUID-LIQUID EQUILIBRIUM IN THE SYSTEM ACETIC ACID-WATER-BUTANE. [1962] 5p.
Order from ATS \$5.75 ATS-39P63R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 8, p. 564-566.

DESCRIPTORS: *Acetic acids, Water, *Butanes,
Liquids, Phase studies, *Chemical equilibrium.

AT 63-3701

(Chemistry--Physical, TT, v. 9, no. 1)

62-34259

- I. Efremova, G. D.
- II. Pryanikova, R. O.
- III. ATS-39P63R
- IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

Calculation of the Process of Vapour
Condensation From a Vapour-Gas Mixture,
by M. E. Ivanov.
RUSSIAN, per, Khimicheskaya Promyshlennost',
1961, No 9, pp 52-58.
MLL RTS 2406 (On Loan or Purchase)

Aug 65

288,852

R-231/63

Some Questions of the Planning Organization of
Chemical Enterprises, by V. V. Nezhinskiy. SF-2737

RUSSIAN, per, Khim Prom, No 9, 1961, pp 593-596.

*JPRS

USSR

Econ

Jul 63

The Manufacture of Sodium Tripolyphosphate and
Pyrophosphate, by I. L. Gofman, M. V. Lykov.

RUSSIAN, per, Khim Prom, No 9, 1961, pp 620-624.

MLL RTS 2134
(loan)

Sci - Chem
Jul 63

238,123

Gol'dberg, N. A. and Kucheryavyl, V. I.
CHEMISORPTION PROCESS MODELS [Modelirovanie
Khemosorptsionnykh Protsessov]. Apr 62, 6p. 10 refs.
Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 9 [p. 630-636].

DESCRIPTORS: *Chemical engineering, *Chemisorp-
tion, Models (Simulations), Towers (Chemistry), Hy-
drodynamics, Mass transfer.

(Chemistry--Physical, TT, v. 9, no. 5)

62-34328

- I. Gol'dberg, N. A.
- II. Kucheryavyl, V. I.
- III. International Chemical
Engineering, New York

Office of Technical Services

Ivanov, M. E.
THE CALCULATION OF VAPOR CONDENSATION
FROM A VAPOR-GAS MIXTURE [Raschet Protsessa
Kondensatsii para iz Paro-Gazovoi Smesi]. Apr 62, 8p.
12 refs.

Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of Khimicheskaya Promyshlennost' (USSR) 1961,
no. 9 [p. 644-650].

DESCRIPTORS: *Chemical engineering, *Vapors, Gases,
Mixtures, *Condensation, Fog, Towers (Chemistry),
Mass transfer, Heat transfer.

(Chemistry--Physical, IV, v. 9, no. 5)

62-34341

I. Ivanov, M. E.
II. International Chemical
Engineering, New York

CFSTI 11 65-60347

Office of Technical Services

62-18758

Vol'fon, L. G. and Kogan, L. M.
CHLORINE-CONTAINING INSECTICIDES PREPARED
FROM HEXACHLOROCYCLOPENTADIENE. [1962]
20p. 64 refs.
Order from OTS or SLA \$1.60 62-18758

Trans. of Khimicheskaya Promyshlennost' (USSR)
1961, no. 10 [p. 672-677].
An abstract trans. is available from OTS or SLA
\$1.10 as 62-15416, AID 61-160, 30 Nov 61, 1p.

DESCRIPTORS: *Insecticides, Chlorine, Chlorination.

(Agriculture--Plant Cultivation, TT, v. 9, no. 8)

I. Vol'fon, L. G.
II. Kogan, L. M.

Office of Technical Services

Mel'nikov, N.N., Shvetsova-Shilovskaya, K.D. and others.

RECHERCHES DES PRODUITS INSECTICIDES DANS LA SÉRIE DES ESTERS ARYLIQUES DE L'ACIDE N-ALKYLCARBAMIQUE (Izyskanie Insektisidnykh Preparatov v Ryadu Arilovykh Eftrov N-Alkylkarbaminovoi Kisloty) (Insecticides from Aryl Esters of N-Alkylcarbamic Acids) 10p. (Foreign text included) 2 refs. GR-826.

Order from OTS, ETC or CNRS \$0.80 TT-63-26916

Trans. in French of *Khimicheskaya Promyshlennost'* (USSR) 1961, no. 10, p. 679-681.

DESCRIPTORS: Insecticides, Carbamic acid, Carbamates, Manufacturing methods, Experimental data.

(Chemistry--Organic, TT, v. 11, no. 7)

TT-63-26916

I. Mel'nikov, N.N.
II. Shvetsova-Shilovskaya, K.D.
III. CNRS-GR-826
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translation Centre

(NY-3000)

The Party Program and the Tasks of the
Chemical Industry, by V. S. Fedorov,
33 pp.

RUSSIAN, per, Khim Prom', No 11, 1961,
pp 1-8.

JPRS 13086

USSR
Econ
Mar 62

189,443

The Kinetics of Chemical Reactions in a
Fluidized Catalyst Bed, by O. Ya. Polot-
nyuk.

RUSSIAN, per, Khim Prom, No 11, 1961,
pp 21-24.

68 39/AE & CI AET 1008
ATS RJ-3870

Sci-Chem
Dec 63

244,866

62-34335

Burovol, I. A., Elyashberg, V. M. and others.
MATHEMATICAL MODELS FOR THERMOCHEMICAL PROCESSES OCCURRING IN FLUIDIZED BEDS.
Apr 62, 8p. 6 refs.
Order from ICE in v. 2, no. 2, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 11 [p. 756-762].

DESCRIPTORS: *Chemical engineering, *Thermochemistry, Mathematical prediction, Models (Simulations), *Fluidized solids, Reaction kinetics, Specific heat, Heat transfer.

(Engineering--Chemical, TT, v. 8, no. 11)

- I. Burovol, I. A.
- II. Elyashberg, V. M.
- III. International Chemical Engineering, New York

Office of Technical Services

Polotnyuk, O. Ya.
THE KINETICS OF CHEMICAL REACTIONS IN A
FLUIDIZED CATALYST BED. [1962] 9p.
Order from ATS \$13.65 ATS-55P60R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961. no. 11, [p. 763-766].

DESCRIPTORS: *Chemical reactions, *Fluidized solids,
*Catalysts, *Reaction kinetics.

(Chemistry--Physical, TT, v. 9, no. 2)

62-17718

I. Polotnyuk, O. Ya.
II. ATS-55P60R
III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Determination of the Critical Rate of
Fluidization by Gas Under Pressure, by
B. B. Chesnokov.
RUSSIAN, per, Khim. Prom., No 11, 1961, pp 767-768.

AEC

Sci
Mar 64

Design of Multistage Apparatus With a Fluidized Bed
of Granular Material, by L. A. Kopyan.

RUSSIAN, per, Khim Prom, No 11, 1961, pp 769-770.

U.K. Atomic Energy Authority
Springfields Tr-91

Sci - Engr
Jul 62

202,112

Vakhrushev, I. A., Botnikov, Ya. A., and
Zenchenkov, N. G.
HEAT TRANSFER FROM A FLUIDIZED BED OF
HOT COKE TO THE SURFACE OF HORIZONTAL
TUBES. [1963] 6p.

Order from ATS \$8.00

ATS-92Q66R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 11, p. 787-789.

DESCRIPTORS: *Pipes, Surfaces, *Coke, Fluidized
solids, *Heat transfer.

(Engineering--Chemical, TT, v. 9, no. 10)

63-12818

- I. Vakhrushev, I. A.
- II. Botnikov, Ya. A.
- III. Zenchenkov, N. G.
- IV. ATS-92Q66R
- V. Associated Technical
Services, Inc., East
Orange, N. J.

ATS RJ-3875

Office of Technical Services

(NY-3000)

Achievements of State Union Experimental Dye
Plant During Past Three Years, by I. F.
Dyuzhev, 6 pp.

RUSSIAN, per, Khim Prom, No 12, 1961,
pp 2-4.

JPRS 14182

USSR

Econ

Jun 62

203,385-

Obtaining Compounded Surface Active Materials,
by E. A. Myshkin, 9 pp.
RUSSIAN, per, Khim Prom, No 8, 1961, pp 535-537.
CFSTI TT-64-15724

Sci - M/M
Jul 66

305,865

63-12244

Slin'ko, M. G. and Beskov, V. S.
CALCULATION OF CONTACT EQUIPMENT WITH
ADIABATIC CATALYST LAYERS FOR OXIDATION OF
SULFUR DIOXIDE. July 62 [6]p. 6 refs.
Order from ICE in v. 2, no. 3, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 12, p. 826-831.

DESCRIPTORS: *Computers, Programming, *Catalysts,
*Sulfur compounds, Dioxides, Oxidation, Heat ex-
changers, Specific heat.

(Engineering--Chemical, TT, v. 9, no. 2)

- I. Slin'ko, M. G.
- II. Beskov, V. S.
- III. International Chemical
Engineering, New York

Office of Technical Services

Margulis, M. A. and Gal'tsov, V. Ya.
INTENSIFYING OF CERTAIN PRODUCTION STAGES
OF POLYOLEFINS. *Sov. Brefs*
Order from OTS, SLA, or ETC \$1.10 TT-64-16321

Trans. of Khimicheskaya Promyshlennost' (USSR)
1961 [no 12] p. 837-839.

(Chemistry--Organic, TT, v. 12, no. 3)

TT-64-16321

I. Margulis, M. A.
II. Gal'tsov, V. Ya.

Office of Technical Services

Zayarnyi, N. S.
COMPUTER MODEL FOR AMMONIA SYNTHESIS
COLUMNS. July 62 [6]p. 11 refs.
Order from ICE in v. 2, no. 3, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 12 [p. 850-854].

DESCRIPTORS: *Towers (Chemistry), *Computers,
Models (Simulation), *Ammonia, Synthesis, Reaction
kinetics, Catalysts.

(Engineering--Chemical, TT, v. 9, no. 2)

63-12242

I. Zayarnyi, N. S.
II. International Chemical
Engineering, New York

Office of Technical Services

Kagan, S. Z., Volkova, T. S., and Aerov, M. E.
ÉTUDE DU BRASSAGE LONGITUDINAL DANS LES
EXTRACTEURS ROTATOIRES À DISQUES (Study of
Longitudinal Mixing in the Disc Rotary Extractors).
16p. 33 refs. FR-3179 (text in French).
Order from OTS or ETC \$1.85 62-26307

Trans. in French of Khimicheskaya Promyshlennost'
(USSR) 1961, no. 12, [p. 861-865]

DESCRIPTORS: Liquids, *Solvent extraction, *Disks,
Rotation, Mixtures.

(Engineering--Chemical, TT, v. 9, no. 8)

62-26307

- I. Kagan, S. Z.
- II. Volkova, T. S.
- III. Aerov, M. E.
- IV. FR-3179
- V. Centre National de la
Recherche Scientifique
(France)

Office of Technical Services

63-12248

Kutepov, A. M.
CENTRIFUGAL SEPARATION OF SECONDARY VA-
PORS IN EVAPORATION OF SOLUTIONS. July 62
[5]p. 7 refs.

Order from ICE in v. 2, no. 3, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1962, no. 1, p. 60ff.

DESCRIPTORS: Solutions, Evaporation, Vapors, Sep-
aration, *Centrifuge separation, Numerical analysis.

(Engineering--Chemical, TT, v. 9, no. 2)

I. Kutepov, A. M.
II. International Chemical
Engineering, New York

Office of Technical Services

Gurevich, G. I. and Neiman, E. Ya.
ELECTROSYNTHESIS OF W-OXPENTADECANOIC
ACID. [1962] 10p.
Order from K-H \$12.50 K-H 11911

Trans. of Khim[icheskaya] Promy[shlennost'] (USSR)
1962 [no. 1] p. 41-44.

DESCRIPTORS: *Capric acids, *Fatty acids, Synthesis,
*Electrochemistry.

(Chemistry--Organic, TT, v. 9, no. 11)

63-12951

I. Gurevich, G. I.
II. Neiman, E. Ya.
III. K-H-11911
IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Investigation Into the Electro-Chemical Behaviour of
Titanium and Several Other Metals During the
Electrolysis of Chloride Solutions, by L. M. Yakimenko.

~~SECRET~~
RUSSIAN, per, Khim Prom, No 1, 1962, pp 43-47.

NLL ETS 2277 (*Loan*)

Sci - M/M
Feb 64

248, 259

Operation of a Centrifugal Froth Separator, by
V. T. Barishpolets, 5 pp.

RUSSIAN, per, Khim Prom, No 2, 1962, pp 45, 46.
9200975

MAEC-Tr-5579

Sci - Engr
Jan 63

220, 332

A Determination of the Temperature Field and
the Heat Losses in the Insulation Barrier of
Compressed-Gas Tanks, by S. M. Rips, 20 pp.

RUSSIAN, per, Khimicheskaya Prom, No 2, 1962,
pp 59-65. 9679698

FTD-TT-62-1459

Sci-Phys
Mar 63

224,808

Kil'man, Ya. I.

STABILIZATION OF THE THERMAL DECOMPOSITION OF HIGH-CONCENTRATION AMMONIUM NITRATE MELTS. [1963] [8p] 20refs [BM Trans. no. 2248.]

Order from OTS, SLA, or ETC \$1.10 TT-64-13714

Trans. of Khimicheskaya Promyshlennost' (USSR) 1962, no. 1, p. 66-69. (Abstract available)

DESCRIPTORS: *Ammonium compounds, *Nitrates, Solutions, Pyrolysis, Stabilization, *Urea.

A study was made of the thermal decomposition of ammonium nitrate in the course of evaporation of its solutions at a pressure of 550 mm Hg over a temperature range of 165 to 240° and for various lengths of evaporation time. It was found that the losses (calculated with respect to nitrogen) in the range of 180° to 200° and for an evaporation time of 2 min were between (Chemistry--Physical, TT, v. 11, no. 11) (over)

TT-64-13714

- I. Kil'man, Ya. I.
- II. BM-Trans-2248
- III. Bureau of Mines, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

New Developments in the Synthesis,
Preparation and Use of Polymeric Ion-Ex-
change Materials, by V. S. Titov, A. B.
Pashkov, 20 pp.
RUSSIAN, per, Khimicheskaya Promyshlennost',
No 1, 1962, pp 912-918.
OTS TT-65-60133

338,792

Sci
Aug 67

Kricheskii, I. R., Khazanova, N. E. and others.
DIFFUSION IN GASES AT HIGH PRESSURES. July 62
[8p. 30 refs.

Order from ICE in v. 2, no. 3, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1962, no. 2 [p. 105-111].

DESCRIPTORS: Gases *Nitrogen, *Carbon dioxide,
Diffusion, Mass transfer, High pressure research,
Phase studies.

(Physics--Thermodynamics, TT, v. 9, no. 2)

63-12255

I. Kricheskii, I. R.
II. Khazanova, N. E.
III. International Chemical
Engineering, New York

Office of Technical Services

The Sensitivity of Ozone-Oxygen Solutions to
a Pressure Pulse, by Z. B. Basyrov,
A. V. Pankratov, 6 pp.

RUSSIAN, per, Khimicheskaya Prom, No 3,
1962, pp 22, 23. 9679702

FTD-TT-62-1460

Sci-Phys
Mar 63

224,817

Boyarchuk, P. G. and Planovskii, A. N.
THE KINETICS OF MASS TRANSFER IN RECTI-
CATION APPARATUS OF THE FILM TYPE. Oct 62
[6]p. 21 refs.

Order from ICE in v. 2, no. 4, \$15.00/year

Trans. of Khim[ichekaya] Prom[yshlennost'] (USSR)
1962, no. 3 [p. 195-200].

DESCRIPTORS: *Towers (Chemistry), Rectifiers,
Films, *Mass transfer, Phase studies, Dynamics,
*Chemical engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

65-12321

I. Boyarchuk, P. G.
II. Planovskii, A. N.
III. International Chemical
Engineering, New York

Office of Technical Services

The Preparation of Adipic Acid by Oxidation,
with Nitric Acid, of the Products of Air
Oxidation of Cyclohexane, by A. M. Goldman, et al.
RUSSIAN, per, Khimicheskaya Promyshlennost,
No 4, 1962, pp 237-241.
NTC 71-14728-07A

Feb 72

Pis'men, L. M. and Ioffe, I. I.
CALCULATION OF OPTIMAL PROCESSES IN
CHEMICAL REACTORS BY THE METHOD OF DY-
NAMIC PROGRAMMING. Oct 62 [9]p. 14 refs.
Order from ICE in v. 2, no. 4, \$15.00/year

Trans. of Khimicheskaya Promyshlennost' (USSR) 1962,
no. 4 [p. 260-266].

Another trans. is available from ATS \$19.25 as
ATS-45P63R [1962] 14p.

DESCRIPTORS: *Towers (Chemistry), Reactors,
*Programming, *Computers, Chemical reactions,
*Chemical engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12342

I. Pis'men, L. M.
II. Ioffe, I. I.
III. International Chemical
Engineering, New York

ATS RJ-3863

(261 11 1304)

Office of Technical Services

A Graphical Method of Calculating a Series of Continuously
Operating Reactors, by G. N. Bogachov.
RUSSIAN, per, Khim Prom, No 4, 1962, pp 267-270.

CRL/T. 1302

Sci - Chem

Feb 64

250,114

Chekhov, O. S. and Khiterer, R. Z.
SOME QUESTIONS OF AMMONIA SYNTHESIS IN A
COLUMN WITH A FLUIDIZED CATALYTIC BED.
Oct 62 [6]p. 15 refs.
Order from ICE in v. 2, no. 4, \$15.00/year

Trans. of Khimicheskie Promyshlennost' (USSR)
1962, no. 4 [p. 277-281].

DESCRIPTORS: *Ammonia, Synthesis, *Catalysts,
Fluidized solids, *Chemical engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12344

- I. Chekhov, O. S.
- II. Khiterer, R. Z.
- III. International Chemical
Engineering, New York

Office of Technical Services

Dymerskii, Yu. I. and Kasatkina, A. G.
EQUATION GÉNÉRALE POUR LE CALCUL DES CO-
EFFICIENTS DE TRANSFERT DE MASSE DANS LES
COLONNES A PLATEAUX [A Generalized Equation for
the Determination of the Mass Transfer Coefficient in
Columns Having Plates] tr. by Keteli. 13 Nov 62 [16]p.
11 refs. CEA Trans. no. R 1674.
Order from OTS or SLA \$1.60

63-15497

Trans. in French of Khimicheskaia Promyshlennost'
(USSR) 1962, no. 4, p. 286-290].

DESCRIPTORS: *Towers (Chemistry), *Mass transfer,
Effectiveness, Determination, Vapors, Absorption,
Equations.

(Engineering--Chemical, TIT, v. 10, no. 7)

63-15497

- I. Dymerskii, Yu. I.
- II. Kasatkina, A. G.
- III. CEA-tr-R1674
- IV. Commissariat à l'Énergie
Atomique (France)

Office of Technical Services

Molokanov, Yu. K.
HYDRAULIC RESISTANCE OF GRID AND PERFO-
RATED TRAYS OF THE DOWNFALL TYPE. [1962]
7p.

Order from ATS \$9.85

ATS-SOP63R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1962, no. 4, p. 291-294.

DESCRIPTORS: *Conveyors, Hydraulic research, Re-
sistance, Porosity.

(Engineering--Chemical, TT, v. 9, no. 1)

62-34245

I. Molokanov, Yu. K.
II. ATS-SOP63R
III. Associated Technical
Services, Inc., East
Orange, N. J.

ATS RJ-3225

Office of Technical Services

Pis'men, L. M. and Ioffe, I. I.
CALCULATION OF THE OPTIMAL PROCESS IN
CHEMICAL REACTORS BY THE METHOD OF DY-
NAMIC PROGRAMMING. Jan 63 [9]p. 6 refs.
Order from ICE in v. 3, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1962, no. 5 [p. 352-359].
Another trans. is available from ATS \$19.00 as
ATS-32P65R [1962] 16p.

DESCRIPTORS: *Towers (Chemistry), Reactors, *Pro-
gramming, Dynamics, *Chemical engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12675

- I. Pis'men, L. M.
- II. Ioffe, I. I.
- III. International Chemical
Engineering, New York

ATS RJ-3869

Office of Technical Services

Planovskii, A. N., Bulatov, S. N., and Vertuzaev,
E. D.
CALCULATION OF COLUMN EXTRACTORS WITH
SIEVE PLATES. Jan 63 [5]p. 3 refs.
Order from ICE in v. 3, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1962, no. 5 [p. 364-367].

DESCRIPTORS: *Towers (Chemistry), Design, Mathe-
matical analysis, *Chemical engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12682

1. Title: Sieve plates
- I. Planovskii, A. N.
- II. Bulatov, S. N.
- III. Vertuzaev, E. D.
- IV. International Chemical
Engineering, New York

Office of Technical Services

Sokolinskii, Yu. A.
CALCULATION OF EQUILIBRIUM IN THE SYNTHESIS OF AMMONIA WITH THE AID OF COMPUTERS.
[1963] 6p.

Order from ATS \$9.50

ATS-89Q67R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1962, no. 6, p. 410-413.

DESCRIPTORS: *Computers, *Ammonia, Synthesis,
Chemical equilibrium.

(Engineering--Chemical, TT, v. 9, no. 8)

63-12846

- I. Sokolinskii, Yu. A.
- II. ATS-89Q67R
- III. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RJ-3947

Office of Technical Services

Heat Emission and Hydraulic Resistance in
a Gas Flow Along Tubes With Cross Fins, by
U. V. Petrovskiy, 17 pp.
RUSSIAN, per, Khim Prom, No 6, 1962,
pp 433-451.
CIA/FDD XX-1770

Sci - Engr

Mar 66

USIB Internal Use Only

297,534

Malyusov, V. A., Zhavoronkov, N. M. and others.
INVESTIGATION OF THE EFFECTIVENESS OF REGU-
LAR PACKINGS IN THE RECTIFICATION OF WATER.
Apr 63, 12p. 18 refs.
Order from ICE in v. 3, no. 2, \$15.00/year

Trans. of Khim[icheskaya] Prom[shlennost'] (USSR)
1962, no. 7 [p. 519-529].

DESCRIPTORS: *Purification, *Distillation, *Water,
Effectiveness, Packing materials, Design, Hydrody-
namics, Mass transfer, Resistance, Pressure,
Velocity, Temperature, Chemical engineering.

(Engineering--Chemical, TT, v. 10, no. 3)

63-17500

1. Title: Rectification
- I. Malyusov, V. A.
- II. Zhavoronkov, N. M.
- III. International Chemical
Engineering, New York

Office of Technical Services

Tomilov, A. P., Kaabak, L. V., and
Varshavskii, S. L.
ELECTROCHEMICAL REDUCTION OF NITRILES.
[1962] 8p.
Order from ATS \$12.00 ATS-44P66R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1962, no. 8, p. 562-566.

DESCRIPTORS: *Nitriles, Reduction (Chemistry),
Electrochemistry, Chemical reactions.

(Chemistry--Physical, TT, v. 9, no. 7)

63-12647

I. Tomilov, A. P.
II. Kaabak, L. V.
III. Varshavskii, S. L.
IV. ATS-44P66R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Planovskii, A. N. and Bulatov, S. N.
ANALYTICAL CALCULATION OF THE NUMBER OF
EFFECTIVE PLATES OF COLUMNAR MASS TRANS-
FER EQUIPMENT. Jan 63 [6]p. 4 refs.
Order from ICE in v. 3, no. 1, \$15.00/year

Trans. of *Khimicheskaya Promyshlennost'* (USSR) 1962,
no. 8, p. 592-[595].

DESCRIPTORS: *Towers (Chemistry), Absorption,
*Mass transfer, Mathematical analysis, *Chemical
engineering.

(Engineering--Chemical, TT, v. 9, no. 6)

63-12693

- I. Title: Sieve plates
- I. Planovskii, A. N.
- II. Bulatov, S. N.
- III. International Chemical
Engineering, New York

Office of Technical Services

The Causes of Explosions in the Purification
of Hydrogen with liquid Nitrogen, by
B. D. Mel'nik, 12pp
RUSSIAN, per, Khimicheskaya Promyshlennost;
1962, No 9, pp 625-630
CFSTI TT-64-19382

323,813

Sci - Engineering
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Gol'dberg, N. A. and Al'tshuler, L. N.
THE MACROSCOPIC KINETICS AND MECHANISM OF
THE SYNTHESIS OF UREA FROM AMMONIA AND
CARBON DIOXIDE. Apr 63, 5p. 12 refs.
Order from ICE in v. 3, no. 2, \$15.00/year

Trans. of Khimicheskaya Promyshlennost' (USSR) 1962,
no. 9 [p. 638-641].

DESCRIPTORS: Chemical engineering, *Urea, Amides,
Carbamates, Esters, Cyano radicals, *Ammonia,
*Carbon dioxide, Oxides, Pressure, Temperature,
Synthesis (Chemistry), *Reaction kinetics.

(Engineering--Chemical, TT, v. 10, no. 3)

63-17505

I. Gol'dberg, N. A.
II. Al'tshuler, L. N.
III. International Chemical
Engineering, New York

Office of Technical Services

Bezuglii, S. F., Akimov, B. A., and Antonova, V. G.
FINE PULVERIZATION OF CONCENTRATED
PESTICIDAL WETTED POWDERS IN AN AIRSTREAM
MILL. [1964] [8p] 7refa
Order from OTS, SLA, or ETC \$1.10 TT-64-14841

Trans. of Khim[ichekaya] Prom[yshlennost'] (USSR)
1962 [no. 9, p. 695-697].

TT-64-14841

I. Bezuglii, S. F.
II. Akimov, B. A.
III. Antonova, V. G.

(Engineering-Chemical, TT, v. 11, no. 11)

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Compressibility of Mixtures of Ammonia and
Carbon Dioxide and Equilibrium of the Urea
Synthesis Reaction, by G. D. Efremova,
G. G. Leont'eva.
RUSSIAN, per, Khim Prom, Vol 38, No 10, 1962,
pp 742-746.
ATS RJ-4996

Sci-Phys
Feb 69

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Gel'perin, N. I. and Ainshtein, V. G.
THERMAL CALCULATION OF A PNEUMATIC CON-
VEYOR IN A FLUIDIZED BED. Apr 63, 5p. 6 refs.
Order from ICE in v. 3, no. 2, \$15.00/year

Trans. of Khimicheskaya Promyshlennost' (USSR) 1962,
no. 10 [p. 753-756].

DESCRIPTORS: Chemical engineering, *Conveyors,
*Pneumatic devices, *Fluidized solids, Heat transfer,
Pyrites.

(Physics--Thermodynamics, TT, v. 10, no. 3)

63-17519

I. Gel'perin, N. I.
II. Ainshtein, V. G.
III. International Chemical
Engineering, New York

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New Methods in the Technique of Drying Moist
Materials in a Suspended Layer, byB. Sazhin.
RUSSIAN, per. Khimicheskaya Promyshennost, No 11,
1962, pp 4-50-52
CSIRO/No 7220

Sci -

Aug 67

335,088

Fluidized Bed Driers, by P. Romankov.
RUSSIAN, per, Khimicheskaya Promyshlennost',
No 11, 1962, pp 8-42 - 47
CSIRO/No 7219

Sci -
Jul 67

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Hydraulics and Heat Exchange in a Fluidized Bed with
a Vertical Set of Tubes., by N. Gel'perin.
RUSSIAN, per, Khimicheskaya Promyshlennost', Vol. 11,
1962, pp 701-788.
CSIRO/No. 6060

Sci -
July 1967

334-674

Vakhrushev, L. A. and Erokhin, G. S.
THE MIXING OF SOLID PARTICLES IN A FLUIDIZED
BED. July 63, 6p, 10 refs.
Order from ICE in v. 3, no. 3, \$15.00/year

Trans. of Khimicheskaya Promyshlennost' (USSR)
1962, no. 11 [p. 810-814].

DESCRIPTORS: Chemical engineering, *Fluidized
solids, Heat transfer, Catalysts, Mixtures, Hydro-
carbons, Decomposition, Laboratory equipment,
Design.

(Engineering--Chemical, TT, v. 10, no. 7)

63-17878

I. Vakhrushev, L. A.
II. Erokhin, G. S.
III. International Chemical
Engineering, New York

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Technical Calculation of Air-Spouted Units
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by B. S. Sashin, 16 pp.
RUSSIAN, per, Khimicheskaya Promyshlennost',
No 11, 1962, pp 819-822.
OTS TT-65-60511

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Sci
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Steady-State Performance of Gas Distributors
in Apparatus with a Fluidized Bed,
by B. M. Ustinov.
RUSSIAN, per, Khim Prom, No 11, 1962, pp 851-854.
CFSTI TT-64-15730

Sci - Eng
Jul 66

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Azbel, D. S.
THE HYDRODYNAMICS OF BUBBLER PROCESSES.
July 63, 5p. 20 refs.
Order from ICE in v. 3, no. 3, \$15.00/year

Trans. of *Khimicheskaya Promyshlennost'* (USSR)
1962, no. 11 [p. 854-857].

DESCRIPTORS: Chemical engineering, *Hydrodynamics,
*Bubbles, Mass transfer, Porous materials.

(Mechanics--Hydrodynamics, TT, v. 10, no. 7)

63-17875

1. Title: Bubbler processes
- I. Azbel, D. S.
- II. International Chemical Engineering, New York

Office of Technical Services

NEWS IN RADIATION POLYMERIZATION, BY
I. M. BARKALOV, V. I. GOL'DANSKIY, 14 PP.

RUSSIAN, PER, KHIM PROM, NO 12, 1962, PP 1-5.

JPRS 18868

SCI - CHEM

MAY 63

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New Developments in the Synthesis, Preparation
and Use of Polymeric Ion-Exchange Materials,
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RUSSIAN, per, Khimicheskaya Promyshlennost',
1962, No 12, pp 54-60.

NLL RTS 2522 (On Loan or Purchase)

Aug 65

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Barkalov, I. M. and Gol'danskii, V. I.
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July 63, 6p. 57 refs.
Order from ICE in v. 3, no. 3, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1962, no. 12 [p. 859-863].

Another trans. is available from OTS \$0.50 as
63-21657, JPRS-18868, 24 Apr 63, 19p.

DESCRIPTORS: *Polymerization, Free radicals,
*Vinyl plastics, *Radiation effects, Ionization, Radia-
tion chemistry, Chemical engineering, *Reviews.

(Chemistry, TT, v. 10, no. 7)

63-17893

I. Barkalov, I. M.
II. Gol'danskii, V. I.
III. International Chemical
Engineering, New York

Office of Technical Services

Stereoregular Polymers, by B. A. Krentsel.
RUSSIAN, per, Khim Prom, No 12, 1962,
pp 864-870.
RAPRA 1143

Sci - Chem
Jun 64

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The Chemistry of Salts With Conjugated Bonds,
By A. A. Berlin, 35 pp.

RUSSIAN, per, Khim Promy, No 12, 1962, pp 881-896.
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ACC-SCI-T-512

Sci - Chem
Jan 64

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Zhigallo, Ya. V., Shipak, L. I., Gaidel, T. P.,
Duchinskaya, V. I., and Raksha, V. V.
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MATIONS OF THE ZINC-CHROMIUM CATALYST
FOR METHANOL SYNTHESIS. [1963] 11p
Order from ATS \$14.50 ATS-42Q72R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1963, no. 1, p. 29-34.

DESCRIPTORS: Synthesis (Chemistry), *Methanols,
Catalysts, *Chromium, *Zinc, Transformations,
Phase studies.

(Chemistry--Organic, TT, v. 11, no. 4)

TT-63-22922

- I. Zhigallo, Ya. V.
- II. Shipak, L. I.
- III. Gaidel, T. P.
- IV. Duchinskaya, V. I.
- V. Raksha, V. V.
- VI. ATS-42Q72R
- VII. Associated Technical
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East Orange, N. J.

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EXPANSION OF UKRAINIAN CHEMICAL INDUSTRY, 7 PP.

UKRAINIAN, PER, KHIM PROM, KIEV, NO 2, 1963, PP 3-5

JPRS 20637

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AUG 63

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Separation of Dust From a Gas Stream by Fil-
tration at Constant Velocity, by
Yu. V. Krasovitskiy, V. A. Zhuzhikov.
RUSSIAN, per, Khim Prom, No 2, 1963, pp 49-52.
AEC ANL-Trans-572

Sci-Phys
Jul 68

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Grubov, V. I.
AN INVESTIGATION OF THE OPERATION OF A
CARBONATING TOWER USING A URAL-1 MULTI-
PURPOSE ELECTRONIC COMPUTER. 8p.
Order from ATS \$10.65

ATS-63R75U

Trans. of Khim[ichna] Prom[yslovit'] (USSR) 1963,
no. 2, p. 52-56.

(Engineering--Chemical, TT, v. 12, no. 4)

TT-64-22283

I. Grubov, V. I.
II. ATS-63R75U
III. Associated Technical
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East Orange, N. J.

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EQUIPMENT FOR THE CONTINUOUS POLYMERIZATION
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A. P. POLYV'YANYI, 8 PP.

UKRAINIAN, PER, KHIMICHNA PROMI, NO 2, 1963,
PP 56-59.

JPRS 20642

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AUG 63

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INCREASED SULFURIC ACID PRODUCTION IN UKRAINE,
BY R. G. PUSHKAR, L. G. CHERNEGA, 6 PP.

UKRAINIAN, PER, KHIM PROM, NO 2, 1963,
PP 70-72.

JPRS 20637

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ECON
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DONETS SODA AND FERRITE FURNACES NOW BURNING
GAS, BY A. S. SHESTAKOV, YE. N. OVSYANNIKOV,
5 PP.

UKRAINIAN, PER, KHIM PROM, NO 2, 1963,
PP 76-77.

JPRS 20637

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ECON
AUG 63

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Gel'perin, N. L., Pebalk, V. L., and Chicherina,
T. G.
INVESTIGATION OF A PULSATING PACKED EXTRAC-
TION COLUMN. July 63, Sp. 23 refs.
Order from ICE in v. 3, no. 3, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1963, no. 2 [p. 111-115].

DESCRIPTORS: Chemical engineering, *Towers
(Chemistry), Separation, *Mass transfer.

(Engineering--Chemical, TT, v. 10, no. 7)

63-17885

- I. Gel'perin, N. L.
- II. Pebalk, V. L.
- III. Chicherina, T. G.
- IV. International Chemical
Engineering, New York

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Shalygin, V. A.

A STUDY OF THE INFLUENCE OF PRESSURE ON
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Order from ICE in v. 3, no. 3, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
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DESCRIPTORS: *Mass transfer, *Towers (Chemistry),
*Radioactive isotopes, Pressure, Temperature,
Chemical engineering.

(Chemistry--Physical, TT, v. 10, no. 7)

63-17891

- I. Zel'venskii, Ya. D.
- II. Titov, A. A.
- III. Shalygin, V. A.
- IV. International Chemical
Engineering, New York

INS DOC/T 7058

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Conditions for a Stable Process in a
Semicontinuous Reactor, by V. V. Kafarov,
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RUSSIAN, per, Khimicheskaya Promyshlennost'
No 2, 1963, pp 125-129.
ATS-40R76R

Jun 57

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PRODUCTION OF COMPACT HAFNIUM BY THE IODIDE METHOD,
BY I. V. VYNAROV, YE. I. KOVAL'OVA, 8 PP

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UKRAINIAN, PER, KHIM PROM, NO 3, JUL-SEP 1963,
PP 46-48.

JPRS 22297

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DEC 63

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Vinylpyridenes and Polymers Based on Them,
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A. A. Artamonov.
RUSSIAN, per, Khimicheskaya Promyshlennost,
No. 3, 1963, pp 161-7.
ATB-06T90R
ATB RJ 4053

Sci - Chem
Jul 67

~~307, 468~~
331, 468

Bretsznajder, S., Jaszczak, M., and Pasyuk, W.
INTENSIFICATION OF SOME PROCESSES IN THE
CHEMICAL INDUSTRY BY MEANS OF VIBRATIONS.
[1963] 11p
Order from ATS \$11.00

ATS-76Q72R

Trans. of Khim[icheskaya Promyshlennost'] (USSR)
1963, no. 3, p. 211-217.

DESCRIPTORS: *Chemical industry, Chemical engi-
neering, Industrial production, *Vibration.

(Engineering--Chemical, TT, v. 11, no. 3)

TT-64-12063

- I. Bretsznajder, S.
- II. Jaszczak, M.
- III. Pasyuk, W.
- IV. ATS-76Q72R
- V. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Telegin, V. G. and Sidorov, V. A.
ALKYLATION OF TOLUENE WITH ACETYLENE IN A
REACTOR WITH A SHIELDED ELECTRIC MOTOR.
Apr 64, 5p Struts
Order from ICE \$15.00/year in International Chemical
Engineering, 1964, v. 4, no. 2, p. 312-316

Trava. of Khimicheskaya Promyshlennost' (USSR) 1963,
no. 2, p. 567-570.

(Engineering-Chemical, TT, v. 12, no. 4)

TT-64-22217-2 (p. 312-316)

- I. Telegin, V. G.
- II. Sidorov, V. A.
- III. International Chemical
Engineering, New York

Office of Technical Services

Design of Towers with Dual-Flow (Counter-
current) Tube Trays, by A. G. Kasatkin.
RUSSIAN, per, Khim Prom, Vol 39, No 4,
1963, pp 279-286.
ATS RJ-4972

Sci-Phys
Feb 69

373,786

DEVELOPMENT OF THE BASIC CHEMICAL INDUSTRY FOLLOWING
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KRASNUSHKIN, 18 PP.

RUSSIAN, PER, KHIMICHESKAYA PROMYSHLENNOST', NO 5,
1963, PP 1-7.

JPRS 21013

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SEP 63

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CHEMICAL INDUSTRY IN THE MOSCOW REGION, BY I. I.
KARATAYEV, 11 PP.

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JPRS 21013

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Inorganic Acids, Curing Flotation in an
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No 5, 1963, pp 341-344.
SIA TT-66-10250

sci-Chem
Aug 66

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Continuous Catalytic Oxidation of Liquid Paraffins
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and Ts. N. Shcheglova.

RUSSIAN, per, Khim Prom, 1963, no.6, pp.415-417.

ATS 95R78R

ATS RJ-4756

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Aug 66

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Feigin, E. A., Platonov, V. M., Mukhina, T. N.,
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PYROLYSIS FURNACE COIL. Apr 64, 9p 18refs
Order from ICE \$15.00/year in International Chemical
Engineering, 1964, v. 4, no. 2, p. 245-253

Trans. of Khimicheskaya Promyshlennost' (USSR) 1963,
no. 7 [p. 519-526].

(Engineering--Chemical, TT, v. 12, no. 4)

TT-64-22217-2 (p. 245-253)

I. Feigin, E. A.
II. Platonov, V. M.
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V. International Chemical
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New Kinds of Containers Made of Worn Tire
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A. B. Derevicher, I. P. Pishchulin, 5 pp.
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pp 626-628. 9695109
RSTC 381-T64-18

Sci - Chem
Nov 64

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Synthesis of Isoprene from Propylene, by
I. Ya. Tyuryayev.
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ATS RJ-5166

Sci-Chem
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Sila'ko, M. G., Beshov, V. S., and Skomorokhov,
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THE STABILITY OF CONTACTING EQUIPMENT WITH
INTERNAL HEAT EXCHANGE. Apr 64, 8p 17rds
Order from ICE \$15.00/year in International Chemical
Engineering, 1964, v. 4, no. 2, p. 275-282

Trans. of Khimicheskaya Promyshlennost' (USSR) 1963,
no. 9, p. 641-[646].

(Engineering-Chemical, TT, v. 12, no. 4)

TT-64-22217-2 (p. 275-282)

- I. Sila'ko, M. G.
- II. Beshov, V. S.
- III. Skomorokhov, V. B.
- IV. International Chemical
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Office of Technical Services

Tyuryaev, I. Ya., Fel'dblyum, V. Sh. and others.
SYNTHESIS OF ISOPRENE FROM PROPYLENE. 7p.
Order from ATS \$11.85 ATS-98R75R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1963, no. 9 [p. 647-649].

(Chemistry--Organic, TT, v. 12, no. 4)

TT-64-22280

I. Tyuryaev, I. Ya.
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III. ATS-98R75R
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Services, Inc.,
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Office of Technical Services

The Economics of Oxidation of Paraffins,
by B. A. Brunshtein, V. L. Klimenko,
6 pp.
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No 9, 1963, pp 662-665.
SLA TT-64-18743
NTC 70-13452-07A

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Sci
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Order from ICE \$15.00/year in International Chemical Engineering, 1964, v. 4, no. 2, p. 239-243

Trans. of Khimicheskaya Promyshlennost' (USSR) 1963, no. 10, [p. 770-774].

(Engineering--Chemical, TT, v. 12, no. 4)

TT-64-22217-2 (p. 239-243)

- I. Gel'peria, N. I.
- II. Dubinin, M. K.
- III. Podgaetskaya, O. I.
- IV. International Chemical Engineering, New York

Office of Technical Services

Hydraulics and Heat Exchange in a
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nost', No 11, 1963, pp 823-830.
BISI 4411

Sci/M&M
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The Construction of a Mathematical Model for
Rectification of a Multi-Component Mixture
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Zykov and V. P. Maikov, et al,
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ICE Vol 4, No 3, pp 492-498

Sept 66

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NThe New Pesticides, by N. N. Melnikov, 18 pp.
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JPRS 24661

Sci - Agri, Chem
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The Use of Industrial Rotary-Disk Extractors for
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Kagan and V. G. Trukhanov, et al,
RUSSIAN, per, Khimicheskaya Promyshlennost, No 2,
1964, pp 94-101.
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Sept 66

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On the Effect of the Height of the Heat Exchange
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ized Bed, by N.I.Gel'perin and V.G.Ainshtein.
RUSSIAN, per, Khim Prom, 1964, no.2, pp.101-103.
ICE

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Aug 66

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N. P. Syrkus.

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pp 134-141.

NTC-69-13256-07A

AEC/BNL -TR -363-70

Sci-Chem
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On the Use of Boric Acid Esters in Role
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FTD-TT-65-703

Sci - Phys

Oct 65

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Thermal Decomposition of Aluminum Alkyls,
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Sci - Chemistry
Mar 67

An Explosion-Proof Procedure For Liquid-Phase
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RUSSIAN, per, Khim Prom, No 3, 1964,
pp 199-201.
ATS-4757

Sci
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Determination of the Total Resistance of
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No 3, 1964, pp 228-232.
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1964, v. 4, no. 4, p. 680-684

338,773

Sci
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Hydrodynamics and Mass Transfer in the Liquid
Phase on Sieve Trays, by A. V. Sarukhanov,
A. N. Planovskii.

RUSSIAN, par, Khim Prom, Vol 40, No 4, 1964,
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ATS RJ-4969

Sci-Phys
Feb 69

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